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CIRCULAR No. 15.

## U. S. DEPARTMENT OF AGRICULTURE.

## BUREAU OF ANIMAL INDUSTRY.

## CHECK LIST OF THE ANIMAL PARASITES OF PIGEONS.

(Columba livia domestica.)

This check list is taken from the card catalogue of the Zoological Laboratory, Bureau of Animal Industry, and contains all of the animal parasites of the domesticated pigeon recorded up to the present time, so far as it has been possible to trace them in veterinary and zoological literature. The generic names are printed in brevier antique lower case, ex., *Balantidium*; the generally accepted specific names are given in brevier small caps under the generic name, ex., *VIRIDE*; synonyms, which are taken upon the authority of various authors, are printed in brevier italics and cross referenced to the name adopted for the parasite by the most recent authorities, ex., "*Coccidium Rivolta* see COCCIDIUM TENELLUM."

In the present list I do not commit myself to the validity of any species or genus or to the validity of any specific or generic name. The names given are those adopted by the most recent authorities, but it will be years before all of these forms can be properly studied. In a few cases I have adopted the "generally accepted name," even if it is apparently not the first available name, as I consider it better to make changes in nomenclature only when the literature can be given. An historical review of the species is, however, out of the question in a check list of this kind.

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Approved:

J. STERLING MORTON, *Secretary*.

WASHINGTON, D. C., July 21, 1896.

## PROTOZOA (UNICELLULAR ANIMALS).

**Balantidium** Claparède & Lachmann, 1858*VIRIDE* Willach, 1893 ..... Lung**Cercomonas** Dujardin, 1841*GALLINÆ* Rivolta ..... ? Trachea*HEPATICA* Rivolta ..... Liver**Coccidium** R. Leuckart, 1879*Rivolta* see COCCIDIUM TENELLUM.*TENELLUM* Railliet & Lucet, 1891 ..... Intestine1886, *Coccidium Rivolta* Harz [*nee* Grassi, 1881].**Hæmamœba** Grassi & Feletti, 1889*DANILEWSKYI* ..... Blood

**Lophomonas** Stein, 1861*columbæ* see TRICHOMONAS COLUMBÆ.**Trichomonas** Donn , 1837COLUMBÆ Rivolta, 1881.....Intestine  
1886, *Lophomonas columbæ* (Rivolta, 1881) Railliet.**CESTODA (TAPEWORMS).\*****Alyselminthus** Zeder, 1800*columbæ* see DAVAINIA CRASSULA.**Bothriocephalus** Rudolphi, 1808

sp. of Bertkau, 1875.....Intestine

**Choanot nia**† Railliet, 1896*infundibuliformis* see DREPANIDOT NIA INFUNDIBULIFORMIS.**Davainia** R. Blanchard & Railliet, 1891*columbæ* see DAVAINIA CRASSULA.

CRASSULA (Rudolphi, 1819) Railliet, 1893.....Intestine

? 1790, *Tania serpentiformis* i. *T. turturis* Gmelin.? 1800, *Alyselminthus columbæ* Zeder.? 1803, *Halysis columbæ* (Zeder, 1800) Zeder.? 1810, *Tania sphenoccephala* Rudolphi.1819, "*T. sphenoccephala* Rudolphi," 1810, of Rudolphi.1819, *T. crassula* Rudolphi.1891, *Davainia columbæ* (Zeder, 1800) R. Blanchard.~~Drepanidot nia~~  
INFUNDIBULIFORMIS (Goeze, 1782) Railliet, 1893.....Intestine1779, *Tania infundibulum* Bloch pro parte.1782, *T. infundibuliformis* Goeze.1896, *Choanotania infundibuliformis* (Goeze, 1782) Railliet.**Halysis** Zeder, 1803*columbæ* see DAVAINIA CRASSULA.**Ligula** Bloch, 1782

sp. (artificial infections by Duchamp).....Intestine

**T nia** (s. l.) Linn us, 1758*crassula* see DAVAINIA CRASSULA.

DELAFONDI Railliet, 1892.....Intestine

*infundibuliformis* see DREPANIDOT NIA INFUNDIBULIFORMIS.*infundibulum* see " "*sphenoccephala* see DAVAINIA CRASSULA.*turturis* see " "**NEMATODA (ROUND WORMS).****Ascaris** Linn us, 1758*columbæ* see HETERAKIS MACULOSA.*maculosa* see " "*teres* see " "**Calodium** Dujardin, 1845*tenue* see TRICHOSOMUM TENUISSIMUM.

\* For a discussion of these parasites see Stiles's Report upon the Present Knowledge of the Tape-worms of Poultry. (Bull. 12, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C., 1896.)

† Railliet has recently proposed a new genus (*Choanot nia*) for the species *Drepanidot nia infundibuliformis*. As this species has not yet been sufficiently studied anatomically, I prefer to retain the present name.

**Filaria** O. F. Müller, 1787

- CLAVA Wedl, 1856.....(encysted) Trachea  
 MAZZANTII Railliet, 1893.....Connective tissue beneath skin

**Heterakis** Dujardin, 1845

- columbæ see HETERAKIS MACULOSA.  
 MACULOSA (Rudolphi, 1802) Schneider, 1866.....Intestine  
 ? 1782, *Ascaris teres* Goeze, pro parte.  
 ? 1790, *A. columbæ* Gmelin.  
 1802, *A. maculosa* Rudolphi.  
 1885, *Heterakis columbæ* (Rudolphi, 1802) Railliet.

**Trichosoma** Rudolphi, 1819 (also **Trichosomum**)

- columbæ see TRICHOSOMA TENUISSIMUM.  
 TENUISSIMUM Diesing, 1851 [*nec* Leidy, 1890].  
 1819, *Trichosoma columbæ* Rudolphi.  
 1845, *Calodium tenue* Dujardin.

**ARACHNIDA (MITES).****Acarus** Linnæus, 1758

- marginatus see ARGAS REFLEXUS.  
 reflexus see " "

**Argas** Latreille, 1795

- marginatus see ARGAS REFLEXUS.  
 REFLEXUS (Fabricius, 1794) Latreille, 1795.....External  
 1794, *Acarus reflexus* Fabricius.  
 1794, *A. marginatus* Fabricius.  
 1804, *Rhyncoprion columbæ* Hermann.  
 1843, *Argas marginatus* (Fabricius, 1794) Contarini.

**Cheyletiella** Canestrini, 1886

- HETEROPALPA (Méglin, 1878).....External

**Falciger** Buchholz, 1869 [*nec* Megerle, 1821]

- rostratus see FALCULIFER ROSTRATUS.

**Falculifer** Railliet, 1896

- ROSTRATUS (Buchholz, 1869) Railliet, 1896.....External  
 1869, *Falciger rostratus* Buchholz.  
 1877, *Hypodectes columbæ* Solarski.  
 1877, *Hypoderas columbæ* Murray.  
 —?—, *Hypodectes minor*.

**Hypodectes** Filippi, 1861

- columbæ see FALCULIFER ROSTRATUS.  
 minor see " "

**Hypoderas** Frauenfeld, 1864

- columbæ see FALCULIFER ROSTRATUS.

**Megninia**

- ASTERNALIS (Méglin).....External

**Pterophagus**

- STRICTUS (Méglin).....External

**Rhyncoprion** Hermann, 1804 [*nec* Oken, 1815]

- columbæ see ARGAS REFLEXUS.

**Sarcopterinus** Railliet, 1893

- NIDULANS (Nitzsch, 1818) Railliet, 1893.....External

**Sarcoptes** Latreille, 1806

- LÆVIS var. COLUMBÆ Railliet.....External

- Syringophilus** Heller, 1880  
**BIPECTINATUS** Heller, 1880..... External

### INSECTA (INSECTS).

- Acanthia** Fabricius, 1776  
**COLUMBARIA** (Jenyns, 1839)..... External  
 1839, *Cimex columbarius* Jenyns.
- Cimex** Linnæus, 1758  
*columbarius* see **ACANTHIA COLUMBARIA**.
- Colpocephalum** Nitzsch, 1818  
*longicaudum* see **COLPOCEPHALUM TURBINATUM**.  
**TURBINATUM** Denny, 1842..... External  
 1866, *Colpocephalum longicaudum* Nitzsch.
- Dermestes** Linnæus, 1758  
**LARDARIUS** Linnæus, 1758..... External
- Goniodes** (Nitzsch, 1818)  
**MINOR** Piaget, 1880 ..... External
- Hippobosca** Linnæus, 1758  
*avicularia* see **ORNITHOMYIA AVICULARIA**.
- Lipeurus** (Nitzsch, 1818)  
**COLUMBÆ** (Linnæus, 1758) Railliet, 1895..... External  
 1758, *Pediculus columbæ* Linnæus.
- Menopon** (Nitzsch, 1818)  
**LATUM** Piaget..... External
- Ornithomyia** Latreille, 1802  
**AVICULARIA** (Linnæus, 1758)..... External  
 1758, *Hippobosca avicularia* Linnæus.
- Pediculus** Linnæus, 1758  
*columbæ* see **LIPEURUS COLUMBÆ**.
- Tenebrio** Linnæus, 1758  
**MOLITOR** Linnæus, 1758..... External